

# **SDS - Safety Data Sheet**

according to Regulation (EC) No. 1907/2006 (REACH)

#### 1 Identification of the substance / preparation and company / undertaking

Product name
Chemical product name
Synonyms
Supplier

### SANBIO<sup>®</sup> VITA

Potassium diformate, Silicon dioxide, Citric acid

SANBOS GmbH Geraer Straße 14 D-06712 Gutenborn, OT Drossdorf Germany Tel. +49-3441-539873 Fax +49-3441-539874

Emergency Telephone no	+49-(0)173-6990195
e-mail-address of person	
responsible for this MSDS	jm@sanbos.com
Recommended use	Preservative, feed additive

#### 2 Hazards identification

The preparation is classified as	dangerous according to directive 67/548/EEC and its amendments.
Classification	Xi, irritating
Human health hazards	Risk for serious damage to eyes.
Environmental hazards	Based on the available data of this product no hazardous properties are known.
Physical / chemical hazards	Based on the available data of this product no hazardous properties are known

#### 3 Composition / information on ingredients

Substance / preparation: preparation

Chemical name	CAS No.	%	EC no. *	Classification
Potassium diformate	20642-05-1	93-98	243-934-6	Xi, R41
See section 16 for the full text of the R-				
phrases declared above.				
Silicon dioxide	7631-86-9	1-3	231-545-4	
See section 16 for the full text of the R-				
phrases declared above.				
Citric acid	77-92-9	1-6	Citric acid	77-92-9
See section 16 for the full text of the R-			See section	
phrases declared above			16 for the	
			full text of	
			the R-	
			phrases	

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	declared	
	above	

\* EC-No. means EINECS- or ELINCS-number.

4 First-aid measures	
Effects and symptoms	
Inhalation	Over-exposure by inhalation (dust) may cause respiratory irritation (coughing).
Ingestion	Ingestion of the product may cause irritation and discomfort.
Skin contact	There is no known acute effect after over-exposure to this product.
Eye contact	Risk for serious damage to eyes.
First-aid measures	
General	Move exposed person to fresh air. Remove contaminated clothing.
Inhalation	If inhaled, remove to fresh air. Obtain medical attention if symptoms occur.
Ingestion	If swallowed, rinsed mouth with water (only if the person is conscious). Obtain medical attention if symptoms occur.
Skin contact	Rinse with plenty of running water. Remove contaminated clothes and shoes. Obtain medical attention if symptoms occur.
Eye contact	Rinse immediately with plenty of running water. Consult medical attention for eyes immediately.
First-aid facilities	No special recommendations.
5 Fire-fighting measures	
Extinguishing media	Use day showing low CO2
Small fire suitable	Use dry chemical or CO2.
Large fire suitable	Use water, foam or dry chemical powder-
	Based on the available data of this product no hazardous properties are known.
Hazardous thermal	
decomposition products	In case of fire, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, sodium oxide.
Special fire-fighting procedures	
Protection of fire-fighters	Wear suitable protective clothing. Self-contained breathing apparatus.
6 Accidental release measures	
Personal precautions	Ensure good ventilation. Avoid formation of dust and inhalation of dust. See protective measures under point 7 and 8.
Environmental precautions Clean-up methods	Do not allow to enter drains/surface water/ground-water.
Small spill and leak	Wash with plenty of water.
Large spill and leak formation.	Collect spill in suitable containers by mechanical means. Avoid dust
Note	See section 8 for personal protective
	equipment and section 13 for waste disposal.

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7 Handling and storage	
Handling	Use with adequate ventilation. No special technical protective
	measures are necessary.
Storage	Store in a dry, cool and well-ventilated area (due to limited
	adsorption properties). The product has been produced and
	packaging in accordance with strict quality practices. Maintain this
	quality level by storing this product away from other chemicals.
Remarks	The product should be handled with the care usual when dealing with chemicals.
Packaging materials	
Suitable	Polyethylene or Material, chemical-resistant.
Note	See section 10 for stability and reactivity.
8 Exposure controls / persona	l protection
Engineering measures	See section 7. No additional measures necessary.
Hygiene measures	When using does not eat, drink or smoke. Wash hands after handling
	compounds and before eating, smoking and using the lavatory at the
	end of the day.
Personal protective equipment	
Respiratory system	Breathing protection if breathable aerosols/dust is formed. Particle
	filter with medium efficiency for solid and liquid particles (e.g. EN
	143 or 149, Type P2 or FFP2).
Skin and body	Working clothes
Eyes Hands	Safety glasses with side shields. Suitable chemical resistant safety gloves (EN 374) also with
ndilus	prolonged, direct contact and other.
Supplementary note	The specifications are based on own tests, literature data and
	information of glove manufacturers or are derived from similar
	substances by analogy. Due to many conditions (e.g. temperature) it
	must be considered, that the practical usage of a chemical-protective
	glove in practice may be much shorter than the determined
	permeation time.
Recommended material(s)	> 8 hours (breakthrough time): Nitril rubber, butyl rubber, neoprene,
	Viton, PVC. Replace damaged gloves. Advice on personal protection
	is applicable for high exposure levels. Select proper personal
	protection based on a risk assessment of the actual situation.
Q Dhysical and chomical propo	rtios

#### 9 Physical and chemical properties

Physical state	Powder, crystallic
Colour	white to white-yellow
Odour	faint odour
рН	4.1 – 4.4 (concentration 10%)
Boiling point	465°C
Melting point	>109 °C (partially decomposition; complete decomposition >130 °C)
Flash point	Not available.
Lower explosion limit	Not available.

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Auto-ignition temperature Density (g/cm3) Bulk density Solubility in water Solubility Molecular weight Minimum ignition energy Dust explosion class Remarks	<ul> <li>&gt; 150 °C (Wire basket)</li> <li>Not available.</li> <li>0.9 - 1.0 g/cm<sup>3</sup></li> <li>soluble</li> <li>Easy soluble in the following materials: cold water.</li> <li>Partially soluble in the following materials: methanol.</li> <li>130 g/Mol</li> <li>Not available.</li> <li>Not available.</li> <li>More detailed information on the physical and chemical properties can be requested from the supplier.</li> </ul>
10 Stability and reactivity	
Stability	Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid	Exposure to sources of heat, sources of ignition, open flame.
Materials to avoid	Oxidizing substances, inorganic acids
Hazardous decomposition Products	In case of fire: see section 5.
Products	in case of file. see section 5.
<b>11 Toxicological information</b>	
Potential acute health effects	
Inhalation	Over-exposure by inhalation (dust) may cause respiratory irritation (coughing).
Ingestion	There is no known acute effect after over-exposure to this product.
Skin contact	Slight irritant (redness).
Eye contact	Risk for serious damage to eyes.

#### Acute toxicity

Sensitization

Product / ingredient name	Resultat	Species	Dose	Exposure
potassium diformate	LD50 Oral	Rat	> 2000 mg/kg	-
	LD50 dermal		> 5,15 mg/l	4 hours
Primary irritation				
Product / ingredient name	Test	Species	Evaluation	Method
potassium diformate	Skin	Rabbit	not irritant	EEC 84/449, B4
	Eye	Rabbit	irritant	EEC 84/449, B5
Constitution No constitution officet admits [OFCD Cuideling 400]				

No sensitizing effect admits. [OECD Guideline 406]

#### Potential chronic health effects

Chronic effects	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	The substance was not mutagenic in bacteria.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.
Chronic toxicity	No specific data.
Carcinogenicity	No specific data.

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## Mutagenicity No mutagenic effect was found in various tests with mammalian cell culture and mammals.

Muta	aonicity
IVIULA	genicity

Product / ingredient name	Test	Experiment	Result
potassium diformate	Ames Test	In vitro; Bacteria	negative

#### Teratogenicity No specific data.

Reproductive toxicity	The results of animals studies gave no indication of a fertility
	impairing effect
Conclusion / summary	No indications for carcinogenicity. No indications for reproduction toxicity. The product has not been tested. The statement has derived from products of similar structure and composition.

#### **12 Ecological information**

Environmental effects	Readily biodegradable. This product shows a low bioaccumulation
	potential.

#### Aquatic ecotoxicity

Product / ingredient name	Test	Species	Result	Exposure
potassium diformate	Mortality	Fish	Akut LC50 540 mg/L	96 hours
	Mortality	Daphnia	Akut LC50 3500 mg/L	48 hours
	Mortality	Algae	Akut EC50 >1000 mg/L	2 hours

Persistence / degradability	Readily biodegradable (according to OECD criteria).
Elimination information:	Test method: OECD 301D; EEC 92/69, C.4-E (aerobic), activated
	sludge, domestic. Method of analysis: BOD of the ThOD. Degree of
	elimination: >90 % (28 d).
Other adverse effects	No known significant effects or critical hazards.
AOX	The product does not contain organically bound halogens which
	could lead to an AOX (Absorbable Organically bound Halogens) value
	in waste water.
Mobility	Dissolves readily in water.
Woonley	bisolives reduily in water.

#### **13 Disposal considerations**

Methods of disposal (waste of residues; contaminated packaging)

Waste must disposed of in accordance with national and local environmental regulations. Controlled biodegradation in waste water treatment is possible.

#### **14 Transport information**

International transport regulations

Regulatory	UN - Number	Proper shipping	Class	PG *	Label	Additional
information		name				information
ADR/RID-class	Not	-	-	-	-	-
	regulated.					

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Germany

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ADNR-class	Not	-	-	-	-	-
	regulated.					
IMDG-class	Not	-	-	-	-	-
	regulated.					
IATA-class	Not	-	-	-	-	-
	regulated.					

PG\* : Packing group

#### **15 Regulatory information**

**EC-regulations** 

According to EU directives 67/548/EEC and 1999/45/EC this product does to labelling as:

#### Xi, irritant



Risk phrases Safety phrases

R41 – risk of serious damage to eyes
S22 – do not breathe dust
S25 – avoid contact with eyes
S26 – in case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S39 – wear eye/face protection

Remarks

#### **16 Other information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Training advice: Handling of this substance or preparation is restricted to skilled personal only.

#### SANBOS GmbH Geraer Str. 14 D-06712 Gutenborn

OT Drossdorf Germany Phone: +49.3441.539873 Fax: +49.3441.539874 www.sanbos.com Joerg MEYER, Dipl.-Ing. (Univ.) General Manager SANBOS GmbH Germany

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